STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

INSTRUCTIONS FOR FORM WSR

(HAZARDOUS WASTE STREAM REPORT)

Below are instructions for completing the Hazardous Waste Stream and Annual Report form. For new waste streams, complete items 1- 2 on the blank forms and mail to the Division within 90 days of starting generation. Notify the Division within 30 days of significant changes after original notification. For previously notified wastes, review the data on the computer generated forms and mark any changes. The Annual Report portion of the form consists of items 3-6. If you need extra copies, please photocopy the enclosed blank form before writing on it. Complete a separate Hazardous Waste Stream Report for each individual hazardous waste stream currently generated at the site. Rule 1200-1-11-.03(1)(b) gives the procedure to determine if a waste is regulated as hazardous. For questions concerning this report, the regulations or your status as a generator, call the Division of Solid Waste Management at (800)-237-7018. For technical assistance in writing a waste reduction plan, in evaluating your waste reduction opportunities or concerning state of the art equipment or processes, contact the University of Tennessee, Center for Industrial Services at (615) 532-8657 or write to them at Suite 606, 226 Capitol Boulevard Building, Nashville, TN 37219-1804, or visit the web site at www.cis.utk.edu/

ITEM 1- HAZARDOUS WASTE STREAM DESCRIPTION AND PROCESS

1a - WASTE STREAM NAME

Name the waste using a specific, standard name if possible. See Rule 1200-1-11-.02(4) for wastes listed by name. Waste Stream Number - Number in order each waste stream beginning at one (1). If you are notifying on additional waste streams for the first time, start with the number following the last waste stream previously reported. Use this assigned number in all future correspondence.

1b - HOW IS THIS WASTE GENERATED?

Briefly describe how the hazardous waste is generated. This description may aid in assigning the specific hazardous waste name and EPA waste code(s) on item 1h. If extra space is needed, use the Facility Comments (Item 7) on the back of FORM WSR.

1b(1) - SOURCE CODE

Lookup G Source Code on the HAZARDOUS WASTE ANNUAL REPORT CODE LIST.

1c - UNITS OF MEASURE

Choose either kilograms or pounds. Use the same unit on all other forms. If you do not know how to convert from volume units to weight units, enter the volume to weight conversion factor. For example, if your unit of measure is originally in gallons, give a conversion factor in pounds per gallon. Conversion of gallons to pounds: (gallons x pounds per gallon conversion factor) = pounds. Conversion of pounds to kilograms: (pounds divided by 2.2046) = kilograms.

1d - GENERATION FREQUENCY

Check the generation frequency during a year based on whether the waste is generated continuously, at various times during the year, or accidentally or other one time.

1e - WASTE STREAM STATUS

Check the waste stream status during the year based on whether the waste is active, closed or re-activated. If the waste stream is closed, you must put a stop generation date in 1g or the waste stream will not be closed.

1f - HAZARD CRITERIA

Check one or more characteristics of the waste as appropriate to identify its hazards according to Rule 1200-1-11-.02(3) and (4).

1g - GENERATION DATES

Give the DATE GENERATION BEGAN (mm/dd/yy), the date that the facility begins to generate this waste at this site. If the waste is no longer generated, provide the DATE NO LONGER GENERATED (mm/dd/yy).

1h - EPA WASTE CODES

Supply the EPA waste codes as determined in Rule 1200-1- 11-.02. In the case of mixtures, list the codes in descending order of concentration (P, D, F, U and K). While it is difficult at times to determine the correct and most specific EPA waste codes, this is an important task.

1i - TN/RCRA RADIOACTIVE MIXED WASTE

Is the waste a mixed radioactive waste? Enter YES or NO.

1j - MONTHLY MAXIMUM GENERATED

This is the maximum amount of waste that you would produce in any one month of the Report Year. This amount cannot be zero.

1k- pH

Indicate the pH for any corrosive waste.

1l- FLASH POINT

List the flash point (°F) for any ignitable waste.

1m- BTU PER POUND

If the waste is burned for energy recovery; supply the British Thermal Units (BTU) of the waste.

1n- REACTIVE CODES

List the reactive code for any wastes that may react as follows:

1. Potentially releases hydrogen cyanide gas
2. Potentially releases hydrogen sulfide
3. Reacts violently with water
4. Thermally unstable or shock sensitive
5. A DOT forbidden explosive
6. A Class A or B DOT explosive
7. Reactive by presence of strong oxidants
8. Reactive by presence of strong reductants
9. Reactive by other RCRA criteria or other test/criteria.

1o – WASTE FORM CODE

Select a form code from those given on the HAZARDOUS WASTE ANNUAL REPORT CODE LIST.

1p - NAICS CODE

North American Industry Classification System. It has officially replaced the decades old Standard Industrial Classification (SIC) system. Enter the NAICS code that best represents the end products or services for which this waste was generated. A complete list of NAICS codes is available on the internet at www.census.gov/epcd/naics02/ If you need help determining the NAICS Code, write a brief description of your process or product.

1q- US DOT SHIPPING NAME

Give the name required by DOT to be placed on manifests when the waste is shipped offsite.

- over -

1r- US DOT HAZARD CLASS

Enter the DOT hazard class code as defined by the US DOT regulations - (check manifest).

CLASS 1 EXPLOSIVES
- 1.1 SUBSTANCES WITH A MASS EXPLOSION HAZARD
- 1.2 SUBSTANCES WHICH PRESENT A PROJECTION HAZARD BUT NO MASS EXPLOSION HAZARD
- 1.3 SUBSTANCES WHICH PRESENT BOTH A FIRE HAZARD AND A MINOR BLAST OR PROJECTION HAZARD (OR BOTH) BUT NOT A MASS EXPLOSION HAZARD
- 1.4 NO SIGNIFICANT HAZARD
- 1.5 VERY INSENSITIVE SUBSTANCES WITH A MASS EXPLOSION HAZARD
- 1.6 VERY INSENSITIVE ARTICLES WITH NO MASS EXPLOSION HAZARD

CLASS 2 GASES
- 2.1 FLAMMABLE GASES
- 2.2 NON-FLAMMABLE, NON-TOXIC GASES
- 2.3 TOXIC GASES

CLASS 3 FLAMMABLE LIQUIDS

CLASS 4 FLAMMABLE SOLIDS
- 4.1 FLAMMABLE SOLIDS, SELF-REACTIVE SUBSTANCES AND SOLID DESENSITIZED EXPLOSIVES
- 4.2 MATERIALS LIABLE TO SPONTANEOUS COMBUSTION
- 4.3 SUBSTANCES WHICH, IN CONTACT WITH WATER, RELEASE FLAMMABLE GASES

CLASS 5 OXIDIZING SUBSTANCES AND ORGANIC PEROXIDES
- 5.1 OXIDIZING AGENTS
- 5.2 ORGANIC PEROXIDES

CLASS 6 TOXIC AND INFECTIOUS SUBSTANCES
- 6.1 TOXIC SUBSTANCES
- 6.2 INFECTIOUS SUBSTANCES

CLASS 7 RADIOACTIVE SUSTANCES AND ARTICLES

CLASS 8 CORROSIVE SUBSTANCES

CLASS 9 MISCELLANEOUS DANGEROUS SUBSTANCES

1s- US DOT ID CODE

Defined by U. S. Department of Transportation (US DOT) Regulations.

ITEM 2- WASTE STREAM CONSTITUENTS

List the hazardous constituents in the waste and the lower and upper limits of the concentration. Record the units for the range of concentration by checking the appropriate column (percent by volume, percent by weight or parts per million (PPM)). For TCLP wastes, use PPM. If the EPA waste codes for this waste stream are F001-F005, specify the constituents before use and concentration in percentages. If there is a single, precise concentration, supply that information in the "lower" column.

ITEM 3- ANNUAL GENERATION AND HANDLING - TO BE COMPLETED BY ALL GENERATORS

Item 3: For blocks A to D, use the following formula: 3a + 3b –3c = 3d and 3d = 4a + 5a + 5b + 5c + 5d

3a - AMOUNT GENERATED

Accurately report the amount in kilograms or pounds of hazardous waste generated for this waste stream for the Report Year. Enter zero if no hazardous waste was generated during the reported year.

3b - AMOUNT ONSITE JAN 1st

Enter amount in kilograms or pounds of hazardous waste in temporary storage or accumulation area(s) on January 1 of the Report Year.

3c - AMOUNT ONSITE DEC 31st

Enter amount in kilograms or pounds of hazardous waste in temporary storage or accumulation area(s) on December 31 of the Report Year.

3d - AMOUNT HANDLED

The amount handled which should be equal to the following equations: 3a + 3b – 3c = 3d and also 3d = 4a + 5a + 5b + 5c + 5d .

ITEM 4- OFFSITE SHIPPING

4a – TOTAL AMOUNT SHIPPED OFFSITE

Enter the total amount shipped offsite, which matches the amount reported as shipped offsite on the Offsite Shipping Report - (Form OSR)

4b- STATE CODES: STORAGE AND FINAL DISPOSAL / TREATMENT

Enter one or more of the TSDR handling Codes/Waste Management Method Codes, which most closely represent the techniques you used to handle the waste through final disposition in the Report Year. Enter the codes in order of the handling of the waste ending with the code, which represents final disposition. Use the State codes from the HAZARDOUS WASTE ANNUAL REPORT CODE LIST. If an "Other" code is used, write in what treatment method was used. Example: T18 (High Temperature Metal recovery).

4c – EPA MANAGEMENT METHOD

Enter the Management Method Code that best represents the techniques you used to handle the waste through final disposition. Use the EPA codes from the HAZARDOUS WASTE ANNUAL REPORT CODE LIST. If an "Other" code is used, write in what treatment method was used. Example: H129 Other Treatment (provide explanation).

ITEM 5- TSD PERMITTED STORAGE ONLY - OR - FACILITY'S ONSITE HANDLING or TREATMENT

5a - 5d - For onsite handling, use up to four blocks to represent different sets of handling procedures if necessary. TSDRs who placed hazardous wastes in permitted storage in previous years and who rehandled that waste onsite this Report Year should enter the rehandling on the TSDR Permitted Activity Report and not on this form.

ITEM 6- HAZARDOUS WASTE REDUCTION

Refer to the sheet entitled: INSTRUCTIONS FOR ITEM 6 OF FORM WSR (HAZARDOUS WASTE REDUCTION)

ITEM 7- FACILITY COMMENTS

Use this space to more fully explain information or data in ITEMS 1 through 5.

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

INSTRUCTIONS FOR ITEM 6 OF FORM WSR - HAZARDOUS WASTE REDUCTION

(HAZARDOUS WASTE STREAM REPORT FORM)

ITEM 6 - HAZARDOUS WASTE REDUCTION

This report becomes your Annual Summary Information Report which is public information. Do not submit a copy of your Waste Reduction Plan or Annual Progress Report as that is your confidential information.

6a - THIS YEAR RATIO

Calculate this year's ratio for this waste stream by dividing the year's hazardous waste generation (see 3a) by the production achieved in standard production units. The "standard production unit" is set by you as a unit of measure of production for this waste stream and is set in your reduction plan. It is standard in the sense that you are to consistently use it in all future reporting. Try to design it so as to scale the results to a number between 1,000 and .001. You may have a different standard production unit for each waste generated. It should be meaningful to your operation, but may be adjusted to protect confidential business information. As long as your standard unit of measure is known only to you and is not disclosed, your actual levels of production cannot be derived from this report and your confidential business information is protected. Do not record your standard production unit on this form. All existing large and small quantity generators (LQGs and SQGs) are required to answer item 6. New generators have up to two years to stabilize their operations and determine their status for the purposes of the Hazardous Waste Reduction Act. [All generators are still required to notify the Department within 90 days of new generation.] Then, a waste reduction plan is due a year later or March first following, whichever is later. An annual report is to be submitted each year after notification, but this section on waste reduction needs to be completed for the years after the waste reduction plan is first due.

The "standard production unit" is set by you as a unit of measure of production for the specific process that generated this waste stream. It is standard only in the sense that you are to consistently use the unit of measure in all further reporting for this waste stream.

Your standard production unit for this waste stream is to be set in your reduction plan. If it must change, describe the reasons for the change in line 6g, but not what the new measure is. Use the revised standard unit to report this year's waste reduction data. Also, submit revised annual reports using the new standard unit for the past three years or to the beginning of reporting based on the waste reduction plan implementation, whichever is most recent.

6b – GOAL YEAR RATIO

Calculate your goal year ratio by dividing your goal hazardous waste generation in kilograms or pounds by the goal production in standard production units. If no numeric goal has been set for this waste stream, describe your efforts to set it in item 6g.

6c – GOAL YEAR

Record the year in which you seek to meet your reduction goal.

Do not record your standard production unit on this form but only the resulting ratios on item 6. Do not show the ratios as fractions (e.g. 300/1000), but you may show numbers with decimals (e.g. .300). Try to design the standard production units of measure so as to scale the results to a number between 1,000 and .001. Example: An automobile service shop has a parts washer and has chosen to set a standard unit of measure equal to 10 work orders completed. While not every work order requires the use of the parts washer, most do and work orders are conveniently measurable. The number 10 is chosen to hide actual level of work done from competitors, although a competitor may have chosen a different standard production unit, namely barrels of clean parts washer utilized.

In this example one standard unit of production equals 10 work orders. The total number of work orders completed last year was 9,100. The number of standard work units is 9,100 work orders divided by 10 which equals 910 standard production units for last year.

The amount of waste from the parts washers was 5,200 kilograms last year. The actual ratio is 5,200 kilograms of waste divided by 910 standard production units which equals 5.7. Report the actual ratio as "5.7" and not "5200/910".

The shop intends to give the mechanics specific additional training in conserving the parts washer and hopes that in 3 years that the same level of work will result in only 4,100 kilograms of waste. Therefore, the goal ratio is 4,100 kilograms divided by 910 standard production units which equals 4.5. Report the goal ratio as "4.5" and not "4100/910" or "4100/9100 work orders."

The principles remain the same for other businesses. However, a dry cleaner may use hundreds of pounds of laundry for a standard unit of measure. A hospital may report in patients, patient-days, tests administered, doses given, etc. A manufacturer may report in boxes, cases, units, 1000's of items shipped, reams, tons, etc. In each case, the standard unit of production is chosen by you for this waste stream and can remain known only to you. Once chosen, it is to be used consistently for reporting your waste reduction activities. Its use does not disclose your levels of production and the unit should not to be disclosed on this form. However, if you write it on this form, be aware that these reports are public records and are subject to full disclosure.

6d – WASTE / TOXICITY REDUCTION EFFORT CODES

List one or more letter codes below to identify the efforts undertaken to reduce the volume and/toxicity of this waste. Include efforts taken in prior years that affected this year. Waste management after generation, handling methods or dips in economic cycles are not considered source reduction. Only in-process recycling counts as source reduction after the waste is generated.

a. Reformulation/redesign of product
b. In process recycling/process modification
c. Equipment/technology modification
d. Substituting raw materials
e. Improved operations
f. Reduction research/planning
g. No effort
h. Other

6e – WASTE REDUCTION IMPEDIMENT CODES

List one or more letter codes below of the items below that impeded your hazardous waste reduction plan and its results.

a. Training or technical assistance
b. Technical feasibility
c. Economic practicality
d. Measurement/accounting
e. Tennessee hazardous waste regulations
f. Implementation Previous Efforts
g. High costs of HW Management
h. Accidental generation
i. Other

6f – CHANGE IN TOXICITY

As a result of your reduction efforts, how does the toxicity of this hazardous waste for the current Annual Report compare to the last report? Check only one block: "increase," Decrease," or "No change".

6g – NARRATIVE: EXPLAIN REPORTED DATA (IF APPLICABLE)

Provide additional information including impediments to hazardous waste reduction that may demonstrate your efforts to reduce generation.

6h – NARRATIVE: IF NO NUMERIC GOAL EXPLAIN WHY

Provide additional information if no numeric goal is specified (if applicable).

STATE OF TENNESSEE
DIVISION OF SOLID WASTE MANAGEMENT

Hazardous Waste Annual Report Code List

EPA REQUIRED CODES INCLUDE: SOURCE CODES (G), WASTE MANAGEMENT CODES (H), and FORM CODES (W)
STATE REQUIRED CODES INCLUDE: DISPOSAL (D), HANDLING (H), STORAGE (S), TREATMENT (T), SUBPART X (X)

G CODE SOURCE CODES - EPA

OTHER INTERMITTENT EVENTS OR PROCESSES

- G11 DISCARDING OFF SPEC OR OUTDATED CHEMICALS / PRODUCTS
- G12 LAGOON OR SEDIMENT DRAGOUT AND LEACHATE COLLECTION
- G13 CLEANING OUT PROCESS EQUIPMENT
- G14 REMOVAL OF TANK SLUDGE, SEDIMENTS OR SLAG
- G15 PROCESS EQUIPMENT CHANGE-OUT OR DISCONTINUATION
- G16 OIL CHANGES AND FILTER OR BATTERY REPLACEMENT
- G19 OTHER ONE-TIME OR INTERMITTENT PROCESSES (SPECIFY)

POLLUTION CONTROL / WASTE MGMT PROCESS RESIDUALS

- G21 AIR POLLUTION CONTROL DEVICES- BAGHOUSE DUST ETC
- G22 LABORATORY ANALYTICAL WASTES - USED CHEMICALS
- G23 WASTEWATER TREATMENT - SLUDGE, FILTER CAKE ETC
- G24 SOLVENT / PRODUCT DISTILLATION OR RECOVERY - SLUDGE ETC
- G25 HAZARDOUS WASTE MANAGEMENT- SPECIFY METHOD
- G26 STORAGE AND DISPOSAL UNIT LEACHATE COLLECTION

REMEDIATION OF PAST CONTAMINATION

- G41 CLOSURE OF HAZARDOUS WASTE MANAGEMENT UNIT - RCRA
- G42 CORRECTIVE ACTION / SOLID WASTE MANAGEMENT UNIT-RCRA
- G43 REMEDIAL ACTION / EMERGENCY RESPONSE- SUPERFUND
- G44 STATE PROGRAM OR VOLUNTARY CLEANUP
- G45 UNDERGROUND STORAGE TANK CLEANUP
- G49 OTHER REMEDIATION (SPECIFY)

SPILLS AND ACCIDENTAL RELEASES

- G31 ACCIDENTAL CONTAMINATION- PRODUCTS/MATERIALS/CONTAINERS
- G32 CLEANUP OF SPILL RESIDUES
- G33 LEAK COLLECTION AND FLOOR SWEEPING
- G39 OTHER CLEANUP OF CURRENT CONTAMINATION (SPECIFY)

WASTE NOT PHYSICALLY GENERATED ON SITE

- G61 HAZ WASTE RECEIVED FROM OFF SITE- FOR STORAGE / BULKING
- G62 HAZ WASTE FROM FOREIGN COUNTRY GENERATOR OF RECORD

WASTES FROM ONGOING PRODUCTION / SERVICE PROCESSES

- G01 DIP, FLUSH OR SPRAY RINSING
- G02 STRIPPING AND ACID OR CAUSTIC CLEANING
- G03 PLATING AND PHOSPHATING
- G04 ETCHING
- G05 METAL FORMING AND TREATMENT-PICKLING, HEAT TREATING ETC
- G06 PAINTING AND COATING
- G07 PRODUCT AND BY-PRODUCT PROCESSING
- G08 REMOVAL OF SPENT PROCESS LIQUIDS OR CATALYSTS
- G09 OTHER PRODUCTION OR SERVICE RELATED PROCESSES (SPECIFY)

H CODE MANAGEMENT METHOD - EPA

DESTRUCTION/TREATMENT - DISPOSAL AT ANOTHER SITE

- H040 INCINERATION- THERMAL DESTRUCTION OTHER THAN FUEL USE
- H071 CHEMICAL REDUCTION WITH OR WITHOUT PRECIPITATION
- H073 CYANIDE DESTRUCTION WITH OR WITHOUT PRECIPITATION
- H075 CHEMICAL OXIDATION
- H076 WET AIR OXIDATION
- H077 OTHER CHEMICAL PRECIPITATION WITH/WITHOUT PRETREATMENT
- H081 BIOLOGICAL TREATMENT WITH OR WITHOUT PRECIPITATION
- H082 ADSORPTION
- H083 AIR OR STEAM STRIPPING
- H101 SLUDGE TREATMENT AND OR DEWATERING
- H103 ABSORPTION
- H111 STABILIZATION OR CHEMICAL FIXATION PRIOR TO DISPOSAL
- H112 MACRO-ENCAPSULATION PRIOR TO DISPOSAL
- H121 NEUTRALIZATION ONLY
- H122 EVAPORATION
- H123 SETTING OR CLARIFICATION
- H124 PHASE SEPARATION
- H129 OTHER TREATMENT (SPECIFY)

DISPOSAL

- H131 LAND TREATMENT/APPLICATION ONSITE INCLUDE STABILIZATION
- H132 LANDFILL / SURFACE IMPOUNDMNT- TO BE CLOSED AS LANDFILL
- H134 DEEPWELL OR UNDERGROUND INJECTION WITH/WITHOUT TREATMENT
- H135 DISCHARGE TO SEWER/POTW/NPDES WITH PRIOR STORAGE

RECLAMATION AND RECOVERY

- H010 METALS RECOVERY INCLUDING RETORTING, SMELTING, CHEMICAL
- H020 SOLVENTS RECOVERY
- H039 OTH RECOVERY:ACID REGENERATION, ORGANICS RECOV(SPECIFY)
- H050 ENERGY RECOVERY THIS SITE- FUEL USE- ALSO FUEL BLENDING
- H061 FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE

STORAGE AND TRANSFER

- H141 STORAGE/BULKING TRANSFER OFF SITE-NO TREATMENT/RECOVERY

W CODE FORM CODE - EPA

INORGANIC LIQUIDS

- W101 VERY DILUTE AQUEOUS WASTE CONTAINING > THAN 99% WATER
- W103 SPENT CONCENTRATED ACID
- W105 ACIDIC ACID WASTE LESS THAN 5% ACID
- W107 AQUEOUS WASTES CONTAINING CYANIDES
- W110 CAUSTIC AQUEOUS WASTE WITHOUT CYANIDES
- W113 OTHER AQUEOUS WASTE OR WASTEWATERS
- W117 WASTE LIQUID MERCURY
- W119 OTHER INORGANIC LIQUID (SPECIFY)

INORGANIC SLUDGES

- W501 LIME AND OR METAL HYDROXIDE SLUDGES/ SOLIDS NO CYANIDES
- W503 GYPSUM SLUDGES - WASTEH20 TRTMNT OR AIR POLLUTION CNTRL
- W504 OTHER SLUDGES - WASTEH20 TRTMNT OR AIR POLLUTION CNTRL
- W505 METAL BEARING SLUDGES (INCLUDE PLATING) WITHOUT CYANIDE
- W506 CYANIDE-BEARING SLUDGES
- W519 OTHER INORGANIC SLUDGES (SPECIFY)

INORGANIC SOLIDS

- W303 ASH
- W304 SLAGS, DROSSES AND OTHER SOLID THERMAL RESIDUES
- W307 METAL SCALE, FILINGS AND SCRAP (INCLUDING METAL DRUMS)
- W312 CYANIDE OR METAL CYANIDE BEARING SOLIDS, SALTS, CHEMS
- W316 METAL SALTS OR CHEMICALS NOT CONTAINING CYANIDES
- W319 OTHER INORGANIC SOLIDS (SPECIFY)

MIXED MEDIA / DEBRIS / DEVICES

- W001 LAB PACKS WITH NO ACUTE HAZARDOUS WASTE
- W002 CONTAMINATED DEBRIS: PAPER, CLOTHING, RAGS, WOOD, ETC
- W004 LAB PACKS CONTAINING ACUTE HW
- W301 CONTAMINATED SOIL
- W309 BATTERIES, PARTS, CORES, CASINGS
- W310 FILTERS, SOLID ADSORBENTS, ION EXCHG RESIN, SPNT CARBON
- W320 ELECTRICAL DEVICES, LAMPS, THERMOSTATS, CRTS ETC
- W512 SEDIMENT, LAGOON DRAGOUT, DRILLING OR OTHER MUDS
- W801 COMPRESSED GAS

ORGANIC LIQUIDS

- W200 STILL BOTTOMS IN LIQUID FORM
- W202 CONCENTRATED HALOGENATED SOLVENT
- W203 CONCENTRATED NON-HALOGENATED SOLVENT
- W204 CONCENTRATED HALOGENATED / NON-HALOGENATED SOLVENT MIX
- W205 OIL-WATER EMULSION OR MIXTURE
- W206 WASTE OIL
- W209 PAINT, INK, LACQUER, OR VARNISH
- W210 REACTIVE OR POLYMERIZABLE ORGANIC LIQUIDS AND ADHESIVES
- W211 PAINT THINNER OR PETROLEUM DISTILLATES
- W219 OTHER ORGANIC LIQUID (SPECIFY)

ORGANIC SLUDGES

- W603 OILY SLUDGE
- W604 PAINT OR INK SLUDGES, STILL BOTTOMS IN SLUDGE FORM
- W606 RESINS, TARS, POLYMER OR TARRY SLUDGE
- W609 OTHER ORGANIC SLUDGE (SPECIFY)

ORGANIC SOLIDS

W401 PESTICIDE SOLIDES
W403 SOLID RESINS, PLASTICS OR POLYMERIZED ORGANICS
W405 EXPLOSIVES OR REACTIVE ORGANIC SOLIDS
W409 OTHER ORGANIC SOLIDS (SPECIFY)

D CODES DISPOSAL - STATE

TSDR DISPOSAL METHODS

D79 UNDERGROUND INJECTION
D80 LANDFILL
D81 LAND TREATMENT
D82 OCEAN DISPOSAL
D83 SURFACE IMPOUNDMENT TO BE CLOSED AS A LANDFILL
D99 OTHER (SPECIFY)

H CODE HANDLING - STATE

ONSITE HANDLING

H03 RELEASED ONSITE DIRECTLY TO POTW
H05 ON SITE TREATMENT IN ENCLOSED SYSTEM
H06 ON SITE WASTEWATER TREATMENT UNIT
H07 ON SITE ELEMENTARY NEUTRALIZATION
H09 ON SITE RESOURCE RECOVERY
H10 OTHER ON SITE HANDLING

S CODE STORAGE - STATE

TSDR STORAGE METHODS

S01 STORAGE IN A CONTAINER, BARREL, DRUM ETC
S02 STORAGE IN A TANK
S03 STORAGE IN A WASTE PILE
S04 STORAGE IN A SURFACE IMPOUNDMENT
S05 DRIP PAD STORAGE
S06 CONTAINMENT BUILDING
S99 OTHER STORAGE (SPECIFY)

T CODES TREATMENT - STATE

TSDR BIOLOGICAL TREATMENT

T67 ACTIVATED SLUDGE
T68 AEROBIC LAGOON
T69 AEROBIC TANK
T70 ANEROBIC LAGOON
T71 COMPOSTING
T72 SEPTIC TANK
T73 SPRAY IRRIGATION
T74 THICKENING FILTER
T75 TRICKLING FILTER
T76 WASTE STABILIZATION POND
T77 OTHER (SPECIFY)

TSDR BOILERS AND INDUSTRIAL FURNACE

T80 BOILER
T81 CEMENT KILN
T82 LIME KILN
T83 AGGREGATE KILN
T84 PHOSPHATE KILN
T85 COKE OVEN
T86 BLAST FURNACE
T87 SMELTING/MELTING/REFINING FURNACE
T88 TITANIUM DIOXIDE CHLORIDE PROC OXIDATION REACTOR
T89 METHANE REFORMING FURNACE
T90 PULPING LIQUOR RECOVERY FURNACE
T91 COMBUSTION DEV RECOV SULFUR FROM SULFURIC ACID
T92 HALOGEN ACID FURNACE
T93 OTHER INDUSTRIAL FURNACES LISTED IN 40 CFR 260.10
T94 CONTAINMENT BUILDING (TREATMENT)

TSDR CHEMICAL TREATMENT

T19 ABSORPTION MOUND
T20 ABSORPTION FIELD
T21 CHEMICAL FIXATION
T22 CHEMICAL OXIDATION
T23 CHEMICAL PRECIPITATION
T24 CHEMICAL REDUCTION
T25 CHLORINATION
T26 CHLORINOLYSIS
T27 CYANIDE DESTRUCTION
T28 DEGRADATION
T29 DETOXIFICATION
T30 ION EXCHANGE
T31 NEUTRALIZATION
T32 OZONATION
T33 PHOTOLYSIS
T34 OTHER (SPECIFY)

TSDR PHYSICAL TREATMENT BY REMEDIATION

T48 ABSORPTION MOLECULAR SIEVE
T49 ACTIVATED CARBON
T50 BLENDING
T51 CATALYSIS
T52 CRYSTALLIZATION
T53 DIALYSIS
T54 DISTILLATION
T55 ELECTRODIALYSIS
T56 ELECTROLYSIS
T57 EVAPORATION
T58 HIGH GRADIENT MAGNETIC SEPARATION
T59 LEACHING
T60 LIQUID ION EXCHANGE
T61 LIQUID LIQUID EXTRACTION
T62 REVERSE OSMOSIS
T63 SOLVENT RECOVERY
T64 STRIPPING
T65 SAND FILTER
T66 OTHER (SPECIFY)

TSDR PHYSICAL TREATMENT BY SEPARATION

T35 CENTRIFUGATION
T36 CLARIFICATION
T37 COAGULATION
T38 DECANTING
T39 ENCAPSULATION
T40 FILTRATION
T41 FLOCCULATION
T42 FLOTATION
T43 FOAMING
T44 SEDIMENTATION
T45 THICKENING
T46 ULTRAFILTRATION
T47 OTHER (SPECIFY)

TSDR THERMAL TREATMENT

T06 LIQUID INJECTION INCINERATOR
T07 ROTARY KILN INCINERATOR
T08 FLUIDIZED BED INCINERATOR
T09 MULTIPLE HEARTH INCINERATOR
T10 INFRARED FURNACE INCINERATOR
T11 MOLTEN SALT DESTRUCTOR
T12 PYROLYSIS
T13 WET AIR OXIDATION
T14 CALCINATION
T15 MICROWAVE DISCHARGE
T18 OTHER (SPECIFY)

X CODES TREATMENT - STATE

MISCELLANEOUS (SUBPART X)

X01 OPEN BURNING / OPEN DETONATION
X02 MECHANICAL PROCESSING
X03 THERMAL UNIT
X04 GEOLOGIC REPOSITORY
X99 OTHER SUBPART X (SPECIFY)